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WHAT A ROYAL PLANT IS COTTON

Highest Notch In January For Known Except War Times

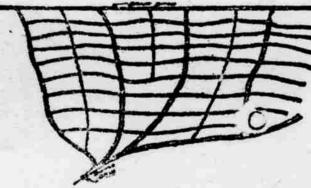
By HENRY W.

What a royal plant it is! The world waits in attendance on its growth. The shower that falls whispering on its leaves is heard around the earth. The sun that shines upon it is tempered by the prayers of all people. The frost that chills it, and the dew that descends from the stars are noted, and the trespass of a little worm on its green leaf is more to England than the advance of the Russian army on her Asiatic outposts. It is gold from the instant it puts forth its tiny shoot. Its fiber is current in every bank; and when loosing its fleeces to the sun, it floats a sunny banner that glorifies the field of the humble farmer. That man is marshaled under a flag that will compel the allegiance of the world and wring a subsidy from every nation on earth. It is the heritage that God gave to this people forever as their own, when he arched our skies, established our mountains, girt us about with the ocean, loosed the breezes, tempered the sunshine and measured the rain. Ours and our children's forever. As princely a talent as ever came from His hand to mortal stewardship.

SCIENTIFIC METHODS OF IRRIGATING ALFALFA

The Government Has Published in Bulletin Form the Results of Extensive Investigations Made in a Number of States.

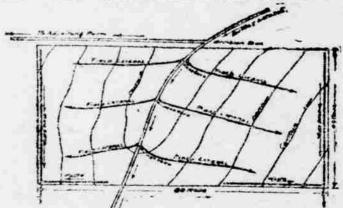
Experience in the growing of alfalfa for more than 2,000 years shows that it thrives best in the soil and climate of arid and semi-arid regions. The abundant sunshine, the warmth, and the deep, rich soil prevailing throughout the western half of the United States seem to be well suited to its requirements, and over half a century's experience has shown that there is comparatively little cultivable land



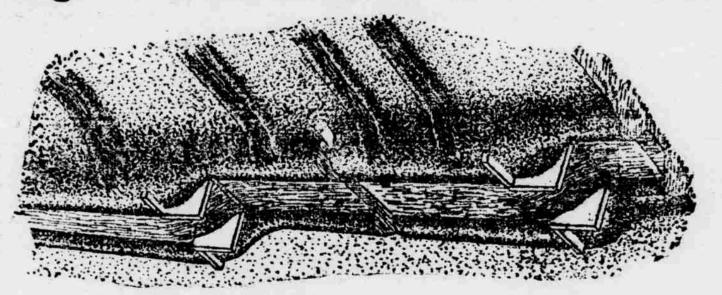
California Method of Laying Out Contour Checks.

in the west on which it cannot be grown. One finds the same varieties flourishing in Imperial valley, Califor- A single ton of alfalfa may save the nia, 100 feet below sea level, and main- lives of many head of stock by protaining a sturdy growth on the San viding feed during short periods of Luis plains of Colorado, 7,500 feet cold, stormy weather. Alfalfa cannot higher. Alfalfa makes a remarkable be excelled as a preparatory crop on zona, yet it is rarely injured by cold tive. Likewise, it maintains the ferin Montana.

importance of alfalfa to western farmers. The alfalfa field and the alfalfa



Ditches.

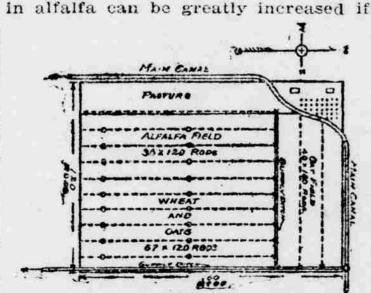


Manner of Placing Tubes in Ditch Bank for Furrow Irrigation.

stack provide the best means of pro- it not only a convenient and useful tecting stock against enormous losses crop to the grower, but a highly proby starvation when the excellent pasturage available throughout the greater part of the year fails either through drought in midsummer or by being covered with deep snow in midwinter. growth in the warm sunshine of Ari- soils that have long been unproductility of soils naturally rich in plant One cannot well overestimate the food, and if used as a base of rotation makes possible abundant crop yields of various kinds. In 1906 the chemists of the Colorado experiment station estimated the fertilizing value of the stubble and roots of mature plants at \$35 per acre when measured by the commercial value of artificial fertilizers on the market. Moreover, the yields are exceptionally high when irrigation, favorable climate conditions and proper treatment are combined. practically all farm animals, makes is wastefully applied to land that is Agriculture, Washington, D. C.

fitable one as well.

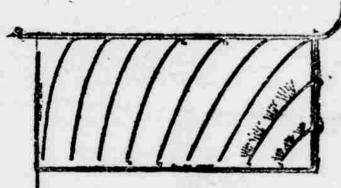
Notwithstanding its present impor- large measure on alfalfa for a liveli-



120-Acre Subirrigated Farm of C. H. great deal of very valuable informa-Anthony, Idaho.

Seven tons of cared hay at three cut- more care and skill are exercised in tings are obtained from the best fields growing it. The western irrigator has letin No. 373 and any one who is inof Montana, while frequently nine seldom been able, financially, to dig terested in the irrigation of alfalia tons in five cuttings are harvested in his ditches and prepare his fields in may procure one of these valuable but-20-Acre Alfalfa Field Near Berthoud, California. This large tonnage, to- such a way as to insure the most ef- letins free of cost by writing to Sam-Col., Showing Supply Lateral, Field gether with its high feeding value dicient irrigation and the highest pro- uel Fortier, chief of irrigation inves-Laterials, Contours and the Waste and the fact that it is consumed by fits. In consequence valuable water tigations, United States Department of

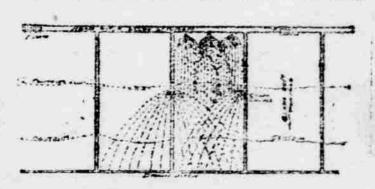
in no fit condition to be irrigated. On the large acreage in irrigated alfalfa this amounts to an enormous loss. This fact, considered in connection with the importance of this crop, the rapidly increasing area devoted to its growth and the large number of farmers who are settling in the west and who will be for years dependent in a



Preparing Land for Flooding in Mon-

tance and great value in irrigation hood, would seem to warrant the colfarming, the profits on the area now lection and publication of any information designed to improve the pres-

It has warranted the collection and



Drain Ditch Flooding From Head Ditches in Wyoming.

publication by the government of a De Camp, Twelve Mi les South of St. | tion secured to improve the present practice of irrigation.

This has been done in Farmers' Bul-